



Government Of West Bengal
Office Of The Deputy Director
West Bengal Fire & Emergency Services
Station Feeder Road, P.O & P.S Siliguri,
District: Darjeeling, Pin - 734005

Memo no.:FSR/0125186217900305

Date: 30-09-2021

From:
Deputy Director
North Zone, HQ Wing,
West Bengal Fire & Emergency Services

To: MODELLA CARETAKER CENTRE & SCHOOL
PLOT NO- 59, 60, 61, 86, J.L. NO- 3, MOUZA- BINNAGURI, PARAGANA- BAIKUTHAPUR, P.S.- BHAKTINAGAR,
DIST- JALPAIGURI

Sub: Fire Safety Recommendation for an existing construction of a G+2 Storied school building containing A & B Block under group Educational represented by Mrs Sanjukta Bose at the premises no- Mouza – Binnaguri, Paragana – Baikunthapur, PS- Bhaktinagar, Plot NO-59,60, 61, 86, J . L . NO-03, Sheet NO- 13 , Khatian NO- 87/1, 91/3, 91/10, Dist- Jalpaiguri , Pin- 734004

This is in reference to your application no. 0125186217900305 dated 16-09-2021 regarding the Fire Safety Recommendation for an existing construction of a G+2 Storied school building containing A & B Block under group Educational represented by Mrs Sanjukta Bose at the premises no- Mouza – Binnaguri, Paragana – Baikunthapur, PS- Bhaktinagar, Plot NO-59,60, 61, 86, J . L . NO-03, Sheet NO- 13 , Khatian NO- 87/1, 91/3, 91/10, Dist- Jalpaiguri , Pin- 734004

The plan submitted by you was scrutinized and marked as found necessary from Fire Safety point of view. In returning one set of plan with recommendation, this is issuing Fire Safety Recommendation in favor of the aforesaid building subject to the compliance of the following fire safety measure.

Recommendation:

A) Construction Part:-

- No addition or alteration of the existing building will be allowed without the concurrence of this department.
- Minimum two staircases from the terrace to the ground floor of the building should be provided for more than single storied building.

B) Electrical Installation: 1946:1982:-(I:S-694)

- i) All electrical installation should be done in accordance with National Electrical code & part -viii "Building Service" section -2 "Electrical installation" good practice.[4(10)].
 - ii) All cable should be of FRLS type & all wiring should be done by the copper wire along with appropriate gauge such as 1.2 esq. mm for light , fan, bulbs etc. 2.5 esq. mm for freeze , TV & 4 esq. for geezer, washing machine etc.
 - iii) Electrical installation shall be tested by the licensed Electricians where as 85 % fire originated from electrical source of energy.
- C) Alternate power supply :-Arrangement shall be made to supply power with the help of a Generator to operate at least the fire pump, pump for deep tube-well , illumination of stairs, corridors, means of escape etc. in case of normal power failure.

D) Fire Fighting water: The building should be provided with 50000 liters capacity of under ground storage water with replenishing arrangement@1000 liters of water per minutes preferably from 2 different sources. The height of the reservoir should not be exceed 30 cm from the ground level .The water reservoir shall be kept fill at all time . The location of the underground Water reservoir should be such so that Fire Service vehicle may get access to this site of the reservoir with a view to draw the water from the said reservoir.

E) TERRACE TANK : One terrace tank of capacity minimum 10000 liters should be installed in the building along with suitable terrace pump and wet riser cum down comer system.

F) Hose Reel System:-IS 884-1985, the Hose reel hose system should be provided at each floor of the building. The internal dia of the said hose reel shall be 19 mm to 32 mm and the discharge capacity not less than 22.5 LPM. While the length of the hose reel not more than 36.50 miters. The distance of such Installation should be in such a way that no part of the floor is more than 6 miters distance from a hose nozzle when fully extended.

G) Pumps for fire fighting Installation.IS-12469-1988.

- i)The pump should be installed and arranged in such manner so that it will start automatically due to fall in pressure as prefixed in the installation by installing a Jockey pump. As per NBC the discharge capacity of the said pump shall be minimum 900 liters per minutes,
- ii) All the pumps shall be so designed as to supply water at the designed pressure and discharge into the water based system which shall be installed in the building.
- iii) One such pump shall always be kept on stand by preferably be of diesel driven type.
- iv)All the pumps shall be incorporated with both normal and auto starting facilities , the suction of the pump shall preferably of positive type or in case of negative suction the system shall be wet riser- cum- down comers with suitable terrace pump fitted with over head tank.

H) Small gears:-I:S 903-1993:- Hose box, 1.5 miters permoline delivery hose & gun metal short branch half inch dia @ one set each at or near all the pillar hydrant, landing valve on all floors of the building should be installed.

I)Down Comer Installation;- Four inch dia MS pipes should be installed in the building from the terrace tank to the ground level consists of landing valves in each floor with a Fire Service connector at the ground level as per NBC.

J) First aid fire fighting system:-IS 2190-1992. Sufficient Nos. of Portable fire extinguishers of DCP type, Water type and Sand and water bucket should be provided at different places of the building and it should be within the reach of all concern as stated in the IS Code i.e. one no.@ 1000 esq.meters floor area or as per the vulnerability.

K) Lighting Protection of the Building: - This protection for buildings shall be provided as given in Part-VIII building Services, Section-2 Electrical installation.

L) General recommendations: -

- i)Mock drill & evacuation drill should be conducted periodically & in this regard a resister for the recording of mock fire drill , evacuation drill ,testing and checking of whole fire fighting installation ,electrical installation should be maintained & shall

be liable to produce the same to the authorized Officer of this department on demand.

ii) Fire notice for fire fighting and evacuation from the building should be provided and shall be displayed at all places of the building as per clause 5.5 of N.B C.

iii) Floor No. and Directional Sign of escape route should be displayed prominently as per clause 5.5 of the N.B Code.(Auto glow type).

iv) Arrangement shall be made for regular checking, testing and proper maintenance of all fire fighting equipments and keep them in good working condition at all time it should be written in the Register.

v) Good house keeping should be maintained.

vi) Extra precautionary, measures shall be taken in the Lab, Practical room etc.

On compliance of the Fire and life Safety Recommendation , the director general , West Bengal fire & emergency Services shall be approached for necessary inspection and testing of the installation , fire safety certificate in favour of the occupancy shall be issues on being satisfied with the test and performance of safety aspects of installation of the building. Any deviation and change the nature of use of the building in respect to approved plan drawing , without obtaining prior permission from this office , this Fire Safety Recommendation will be treated as cancelled.

Signature valid

Digitally signed by ABHIJIT
PANDEY
Date: 2021.08.00 12:30:06 IST

Deputy Director
West Bengal Fire & Emergency Services